

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Twice Amended): A facsimile machine comprising:

a printer unit for printing out data having a predetermined format; and

interface means, coupled to said printer unit, for converting facsimile image data into recording data having a format in which said printer unit can input the recording data, and for supplying the recording data to said printer unit, wherein said printer unit comprises:

a printing portion for printing recording data; and

data supply control means, coupled to said interface means and said printer portion, for supplying the recording data from said interface means to said printing portion at predetermined printing intervals, wherein said data supply control means comprises:

input means for inputting a predetermined character data at the predetermined printing intervals;

gate means for gating the recording data from said interface means so that the recording data is supplied to said printing portion when the predetermined character data is supplied thereto from said input means; and

signal output means for outputting a control signal when said input means inputs the predetermined character data, the control signal being supplied to said interface means, and said interface means supplying the recording data to said printer unit every time said interface means receives the control signal.

Claim 2 (Original): The facsimile machine as claimed in claim 1, wherein said printer unit and said interface means are coupled to each other based on a centronics interface specification.

Claim 3 (Canceled).

Claim 4 (Amended) The facsimile machine as claimed in claim [3] 1, wherein the predetermined character data indicates a font having only black dots.

Claim 5 (Original): The facsimile machine as claimed in claim 4, wherein said gate means has AND gates to each of which a corresponding one of bits of said predetermined character data and a corresponding one of bits of said recording data from said interface means are input.

Claim 6 (Amended): The facsimile [means] machine as claimed in claim 1, further comprising:

a connector connected to said printer unit, through which connector recording data is supplied from an external unit to said printer unit; and

selecting means, coupled to said connector and said interface means, for selecting either a connection between said interface means and said printer unit or a connection between said connector and said printer unit.

Claim 7 (Amended) The facsimile machine as claimed in claim [3] 1, wherein said interface means has loading means for loading the predetermined character data into said printer unit.

Claim 8 (Original): The facsimile machine as claimed in claim 7, wherein said loading means loads the predetermined character data into said printer unit when said printer unit is activated.

Claim 9 (Amended): The facsimile machine as claimed in claim [3] 1, wherein said input means has converting means for converting the predetermined character data into black data indicating a font having only black dots, and wherein when the black data is supplied to said gate means, the recording data from said interface means is supplied to said printing portion via said gate means.

Claim 10 (Original): The facsimile machine as claimed in claim 9, wherein said converting means has OR gates to each of which a corresponding one of the bits of the predetermined character data and a bit indicating a black dot are input.

Claim 11 (New) A facsimile machine comprising:  
a printer unit printing out data supplied thereto; and  
an interface, coupled to said printer unit supplying recording data to said printer unit  
in a converted format in which said printer unit can receive the recording data;  
wherein said printer unit comprises:  
a printing portion printing the recording data; and  
a data supply controller, coupled to said interface and said printer portion, supplying  
the recording data from said interface to said printing portion at predetermined printing  
intervals, wherein said data supply controller comprises:  
an input receiving a predetermined character data at the predetermined printing  
intervals;  
a gate gating the recording data so that the recording data from said interface is  
supplied to said printing portion when the predetermined character data is supplied thereto  
from said input; and

a signal output outputting a control signal when said input inputs the predetermined character data, the control signal being supplied to said interface, and said interface supplying the recording data to said printer unit every time said interface receives the control signal.

Claim 12 (New) The facsimile machine as claimed in claim 11, wherein said printer unit and said interface are coupled to each other based on a Centronics interface specification.

Claim 13 (New) The facsimile machine as claimed in claim 11, wherein said data supply controller comprises:

an input receiving a predetermined character data in synchronization with the printing pulses provided at the predetermined printing intervals;

a gate gating the recording data so that the recording data from said interface is supplied to said printing portion when the predetermined character data is supplied thereto from said input; and

a signal output outputting a control signal when said input inputs the predetermined character data, the control signal being supplied to said interface, and said interface supplying the recording data to said printer unit every time said interface receives the control signal.

Claim 14 (New) The facsimile machine as claimed in claim 11, wherein the predetermined character data indicates a font having only black dots.

Claim 15 (New) The facsimile machine as claimed in claim 14, wherein said gate has AND gates to each of which a corresponding one of bits of said predetermined character data and a corresponding one of bits of said recording data from said interface are input.

Claim 16 (New) The facsimile machine as claimed in claim 11, further comprising:  
a connector connected to said printer unit, through which connector recording data is  
supplied from an external unit to said printer unit; and  
a selector, coupled to said connector and said interface, selecting either a connection  
between said interface and said printer unit or a connection between said connector and aid  
printer unit.

Claim 17 (New) The facsimile machine as claimed in claim 11, wherein said  
interface loads the predetermined character data into said printer unit.

Claim 18 (New) The facsimile machine as claimed in claim 17, wherein said  
interface loads the predetermined character data into said printer unit when said printer unit is  
activated.

Claim 19 (New) The facsimile machine as claimed in claim 11, wherein said input  
converts the predetermined character data into black data indicating a font having only black  
dots, and wherein when the black data is supplied to said gate, the recording data from said  
interface is supplied to said printing portion via said gate.

Claim 20 (New) The facsimile machine as claimed in claim 19, wherein said  
converter has OR gates to each of which a corresponding one of the bits of the predetermined  
character data and a bit indicating a black dot are input.

Claim 21 (New) The facsimile machine as claimed in claim 11, wherein said  
interface performs a format conversion process to obtain the converted format.

Claim 22 (New) A facsimile machine comprising:  
a printer unit printing out data supplied thereto; and  
an interface, coupled to said printer unit, supplying recording data to said printer unit  
in a converted format in which said printer unit can receive the recording data;  
wherein said printer unit comprises:  
a printing portion printing the recording data as a plurality of dots; and  
a data supply controller, coupled to said interface and said printer portion, supplying  
the recording data from said interface to said printing portion in synchronization with printing  
pulses provided at predetermined printing intervals.

Claim 23 (New) A facsimile machine comprising:  
a printer unit printing out data supplied thereto; and  
an interface, coupled to said printer unit, supplying recording data to said printer unit  
in a converted format in which said printer unit can receive the recording data;  
wherein said printer unit comprises:  
a printing portion including a carriage printing the recording data while the carriage is  
moving in a first direction and a second direction opposite to the first direction, and  
a data supply controller, coupled to said interface and said printer portion, supplying  
the recording data from said interface to said printing portion in synchronization with printing  
pulses provided at predetermined printing intervals.

Claim 24 (New) A facsimile machine comprising:  
a printer unit printing out data supplied thereto; and

an interface, coupled to said printer unit, supplying recording data to said printer unit in a converted format in which said printer unit can receive the recording data;

wherein said printer unit comprises:

a printing portion printing the recording data and including a carriage which skips over areas having no image; and

a data supply controller, coupled to said interface and said printer portion, supplying the recording data from said interface to said printing portion in synchronization with printing pulses provided at predetermined printing intervals.

Claim 25 (New) A facsimile machine comprising:

a printer unit printing out data supplied thereto; and

an interface, coupled to said printer unit, supplying recording data to said printer unit in a converted format in which said printer unit can receive the recording data;

wherein said printer unit comprises:

a printing portion storing the recording data in a memory and printing the stored recording data; and

a data supply controller, coupled to said interface and said printer portion, initially clearing the memory in the printing portion and then supplying the recording data from said interface to said printing portion in synchronization with printing pulses provided at predetermined printing intervals.

Claim 26 (New) A facsimile machine comprising:

a printer unit printing out data supplied thereto; and

an interface, coupled to said printer unit, supplying recording data to said printer unit in a converted format in which said printer unit can receive the recording data;

wherein said printer unit comprises:

a printing portion printing the recording data and including a font memory storing font data; and

a data supply controller, coupled to said interface and said printer portion, supplying the recording data from said interface to said printing portion in synchronization with printing pulses provided at predetermined printing intervals.

Claim 27 (New) A facsimile machine comprising:

a printer unit for printing out data supplied thereto; and

interface means, coupled to said printer unit, for converting facsimile image data into recording data having a format in which said printer unit can input the recording data, and for supplying the recording data to said printer unit, wherein said printer unit comprises:

a printing portion for printing recording data as a plurality of dots; and

data supply control means, coupled to said interface means and said printer portion, for supplying the recording data from said interface means to said printing portion in synchronization with printing pulses provided at predetermined printing intervals.

Claim 28 (New) A facsimile machine comprising:

a printer unit for printing out data supplied thereto; and

interface means, coupled to said printer unit, for converting facsimile image data into recording data having a format in which said printer unit can input the recording data, and for supplying the recording data to said printer unit, wherein said printer unit comprises:

a printing portion including a carriage for printing recording data while a carriage is moving in a first direction and a second direction opposite to the first direction; and

data supply control means, coupled to said interface means and said printer portion,



for supplying the recording data from said interface means to said printing portion in synchronization with printing pulses provided at predetermined printing intervals.

Claim 29 (New) A facsimile machine comprising:

a printer unit for printing out data supplied thereto; and

interface means, coupled to said printer unit, for converting facsimile image data into recording data having a format in which said printer unit can input the recording data, and for supplying the recording data to said printer unit, wherein said printer unit comprises:

a printing portion including a carriage for printing recording data while the carriage skips over areas having no image; and

data supply control means, coupled to said interface means and said printer portion, for supplying the recording data from said interface means to said printing portion in synchronization with printing pulses provided at predetermined printing intervals.

Claim 30 (New) A facsimile machine comprising:

a printer unit for printing out data supplied thereto; and

interface means, coupled to said printer unit, for converting facsimile image data into recording data having a format in which said printer unit can input the recording data, and for supplying the recording data to said printer unit, wherein said printer unit comprises:

a printing portion for storing the recording data in a memory printing recording data; and

data supply control means coupled to said interface means and said printer portion, for initially clearing the memory in the printing portion and then supplying the recording data from said interface means to said printing portion in synchronization with printing pulses provided at predetermined printing intervals.

Claim 31 (New) A facsimile machine comprising:  
a printer unit for printing out data supplied thereto; and  
interface means, coupled to said printer unit, for converting facsimile image data into  
recording data having a format in which said printer unit can input the recording data, and for  
supplying the recording data to said printer unit, wherein said printer unit comprises:  
a printing portion including a font memory storing font data and for printing recording  
data; and  
data supplying control means, coupled to said interface means and said printer  
portion, for supplying the recording data from said interface means to said printing portion in  
synchronization with printing pulses provided at predetermined printing intervals.

Claim 32 (New) A method for driving a facsimile machine including a printer unit  
for printing out data having a predetermined format, comprising the steps of:  
converting facsimile image data into recording data having a format in which said  
printer unit can receive the recording data;  
supplying the recording data to said printing unit in synchronization with printing  
pulses provided at predetermined printing intervals; and  
printing the recording data with said printing unit;  
wherein said step of supplying the recording data includes the substeps of:  
inputting a predetermined character data at the predetermined printing  
intervals;  
gating the recording data so that the recording data is supplied to said printing  
unit when the predetermined character data is supplied thereto from said inputting  
step; and

outputting a control signal when said inputting step inputs the predetermined character data, said step of supplying the recording data to the printer unit being based on said control signal.

Claim 33 (New) The method as claimed in claim 32, wherein in said converting step the facsimile data is converted based on a Centronics interface specification.

Claim 34 (New) The method as claimed in claim 32, wherein said step of supplying the recording data includes the substeps of:

inputting a predetermined character data at the predetermined printing intervals;  
gating the recording data so that the recording data is supplied to said printing unit when the predetermined character data is supplied thereto from said inputting step; and  
outputting a control signal when said inputting step inputs the predetermined character data, said step of supplying the recording data to the printer unit being based on said control signal.

Claim 35 (New) The method as claimed in claim 32, wherein in the step of supplying recording data the predetermined character data indicates a font having only black dots.

Claim 36 (New) The method as claimed in claim 35, wherein in said substep of gating the recording data, the recording data is gated by AND gates to each of which a corresponding one of bits of said predetermined character data and a corresponding one of bits of said recording data are input.

Claim 37 (New) The method as claimed in claim 32, further comprising the steps of:  
supplying recording data from an external unit to said printer unit; and  
selecting either the recording data supplied from the external unit or the recording  
data supplied from the step of converting facsimile image data to said printer unit.

Claim 38 (New) The method as claimed in claim 32, wherein said step of converting  
facsimile image data loads the predetermined character data into said printer unit.

Claim 39 (New) The method as claimed in claim 38, wherein said step of converting  
facsimile image data loads the predetermined character data into said printer unit when said  
printer unit is activated.

Claim 40 (New) The method as claimed in claim 38, wherein said substep of  
inputting a predetermined character data converts the predetermined character data into black  
data indicating a font having only black dots, and wherein when the black data is supplied to  
said gating step, the recording data from said step of converting facsimile image data is  
supplied to said printing portion via said gating step.

Claim 41 (New) The method as claimed in claim 40, wherein said substep of  
inputting a predetermined character data converts the predetermined character data by OR  
gates to each of which a corresponding one of the bit of the predetermined character data and  
a bit indicating a black dot are input.

Claim 42 (New) A method for driving a facsimile machine including a printer unit  
for printing out data having a predetermined format, comprising the steps of:

converting facsimile image data into recording data having a format in which said printer unit can receive the recording data;

supplying the recording data to said printing unit in synchronization with printing pulses provided at predetermined printing intervals; and

printing the recording data as a plurality of dots with said printing unit.

Claim 43 (New) A method for driving a facsimile machine including a printer unit for printing out data having a predetermined format, said printer unit including a carriage, comprising the steps of:

converting facsimile image data into recording data having a format in which said printer unit can receive the recording data;

supplying the recording data to said printing unit in synchronization with printing pulses provided at predetermined printing intervals; and

printing the recording data with said printing unit while said carriage is moving in a first direction and a second direction opposite to the first direction.

Claim 44 (New) A method for driving a facsimile machine including a printer unit for printing out data having a predetermined format, said printer unit including a carriage, comprising the steps of:

converting facsimile image data into recording data having a format in which said printer unit can receive the recording data;

supplying the recording data to said printing unit in synchronization with printing pulses provided at predetermined printing intervals; and

printing the recording data while said carriage skips over areas having no image.

Claim 45 (New) A method for driving a facsimile machine including a printer unit for printing out data having a predetermined format, said printer unit including a memory storing recording data, comprising the steps of:

converting facsimile image data into recording data having a format in which said printer unit can receive the recording data;

clearing the memory of said printer unit;

storing the recording data in the memory of said printer unit;

supplying the recording data to said printing unit in synchronization with printing pulses provided at predetermined printing intervals; and

printing the recording data with said printer unit.

Claim 46 (New) A method for driving a facsimile machine including a printer unit for printing out data having a predetermined format, said printer unit including a font memory, comprising the steps of:

converting facsimile image data into recording data having a format in which said printer unit can receive the recording data;

supplying the recording data to said printing unit in synchronization with printing pulses provided at predetermined printing intervals; and

printing the recording data with said printer unit including said font memory.

Claim 47 (New) A facsimile device comprising:

a modem unit which receives facsimile data from a public communication line;

a printer interface unit which serves as an interface for printing the facsimile data;

an external connector which receives character codes from an exterior of said facsimile device; and

a printer unit, wherein said printer unit includes:

a printing portion for printing images;

a font memory which stores therein font data;

a controller unit which controls the font memory,

a gate unit which receives the font data corresponding to the character codes from said controller unit, and supplies the font data corresponding to the character codes to said printing portion when said printer unit prints images of the character codes, wherein said gate unit receives all black font data from said controller unit and the facsimile data from said printer interface unit, and supplies a logical AND of the all black font data and the facsimile data to said printing portion when said printer unit prints images of the facsimile data.

Claim 48 (New) A facsimile device as claimed in Claim 47, wherein said printer unit and said printer interface unit are coupled to each other based on a centronics interface specification.

Claim 49 (New) A facsimile device as claimed in Claim 48, wherein said gate unit receives the facsimile data from said printer interface unit in synchronization with a pulse signal indicative of supplying the all black font data.

Claim 50 (New) A method for driving a facsimile device including a modem unit which receives facsimile data from a public communication line, a printer interface unit which serves as an interface for printing the facsimile data, an external connector which receives character codes from an exterior of said facsimile device and a printer unit, wherein the printer unit includes a printing portion for printing images, a font memory which stores

therein font data, a controller unit which controls the font memory, and a gate unit, the method comprising the steps of:

receiving, at the gate unit, facsimile data from the printer interface and font data corresponding to received character codes from said controller unit;

supplying from the gate unit, the font data corresponding to the character codes to the printing portion when the printer unit prints images of the character codes,

wherein in the receiving step the gate unit receives all black font data from said controller unit and the facsimile data from the printer interface unit, and

wherein in the supplying step the gate unit supplies a logical AND of the all black font data and the facsimile data to the printing portion when the printer unit prints images of the facsimile data.

Claim 51 (New) A method as claimed in Claim 50, wherein said printer unit and said printer interface unit are coupled to each other based on a centronics interface specification.

Claim 52 (New) A method as claimed in Claim 50, wherein in said receiving step the gate unit receives the facsimile data from said printer interface unit in synchronization with a pulse signal indicative of supplying the all black font data in said supplying step.